CLAIMS

I Claim:

1. A method for purifying fluid within a reflection optical switch system comprising:

placing gettering structures within a chamber within the reflection optical switch system, the gettering structures including heating components which when actuated attract impurities; and,

turning on the heating components within the gettering structures to getter out impurities from fluid within the chamber.

2. A method as in claim 1 wherein placing gettering structures includes placing heating components around filament holes through which vapor enters the chamber from a reservoir.

3. A method as in claim 1 wherein placing gettering structures includes placing heating components on pillars within filament holes through which vapor enters the chamber from a reservoir.

4. A method as in claim 1 wherein placing gettering structures includes placing structures that are optically accessible from outside the chamber.

5. A method as in claim 1 wherein placing gettering structures includes placing a plurality of coupon structures that are optically accessible from outside

the chamber, the plurality of coupon structures including coupon structures of different sizes and composed of different materials so as to target different materials for gettering.

6. A method as in claim 1 wherein placing gettering structures includes placing structures that are used to generate a voltage differential across a gap of predetermined size.

7. A reflection optical switch system comprising:

a chamber that stores fluid; and,

gettering structures within the chamber, the gettering structures including heating components which when actuated getter impurities from the fluid stored in the chamber.

8. A reflection optical switch system as in claim 7 wherein the gettering structures include heating components placed around filament holes through which vapor enters the chamber from a reservoir.

9. A reflection optical switch system as in claim 7 wherein the gettering structures include heating components placed on pillars within filament holes through which vapor enters the chamber from a reservoir.

10. A reflection optical switch system as in claim 7 wherein the gettering structures include structures that are optically accessible from outside the chamber.

11. A reflection optical switch system as in claim 7 wherein the gettering structures include a plurality of coupon structures that are optically accessible from outside the chamber, the plurality of coupon structures including coupon structures of different sizes and composed of different materials so as to target different materials for gettering.

12. A reflection optical switch system as in claim 7 wherein the gettering structures include structures that are used to generate a voltage differential across a gap of predetermined size.

13. A reflection optical switch system as in claim 7 wherein the gettering structures include bridge structures.

14. A reflection optical switch system comprising:

chamber means for storing fluid; and,

gettering means, located within the chamber, for heating and gettering the fluid stored in the chamber means.

15. A reflection optical switch system as in claim 14 wherein the gettering means includes heating components placed around filament holes through which vapor enters the chamber from a reservoir.

16. A reflection optical switch system as in claim 14 wherein the gettering means includes heating components placed on pillars within filament holes through which vapor enters the chamber from a reservoir.

17. A reflection optical switch system as in claim 14 wherein the gettering means includes gettering structures that are optically accessible from outside the chamber.

18. A reflection optical switch system as in claim 14 wherein the gettering means includes a plurality of coupon structures that are optically accessible from outside the chamber, the plurality of coupon structures including coupon structures of different sizes and composed of different materials so as to target different materials for gettering.

19. A reflection optical switch system as in claim 14 wherein the gettering means include bridge structures.

20. A reflection optical switch system as in claim 14 wherein the gettering means includes structures that are used to generate a voltage differential across a gap of predetermined size.